## Claim Amendments

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Please cancel claims 7 and 11 and amend claims 2, 8, and 9 as follows.

1 1. (original) A zoom lens comprising, in order from an enlarging side along an optical axis: 2 a first lens group having negative refractive power that is movable for focusing and that is 3 stationary during zooming; 4 a second lens group having positive refractive power that moves during zooming; 5 a third lens group having negative refractive power that moves during zooming; 6 a fourth lens group having negative refractive power that moves during zooming; and 7 a fifth lens group having positive refractive power that is stationary during zooming; 8 wherein 9 the second lens group, said third lens group, and said fourth lens group move relative to 10 one another along the optical axis of the zoom lens during zooming, 11

the second lens group moves toward the enlarging side during zooming from the wideangle end to the telephoto end, and

the fourth lens group is positioned nearer the reducing side when at the telephoto end than when at the wide-angle end.

2. (original) The zoom lens of claim 1, wherein the following conditions are satisfied:

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2
                -2.2 < F1 / F < -1.2
 3
                 0.6 < F2 / F < 1.1
 4
              -15.0 < F4 / F < -1.5
 5
                0.7 < F5 / F < 1.2
 6
        where
 7
                F1 is the focal length of the first lens group,
 8
                F2 is the focal length of the second lens group,
 9
                F4 is the focal length of the fourth lens group,
10
                F5 is the focal length of the fifth lens group, and
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12	focused at infinity on the enlarging side.
1	3. (original) A projection display device comprising:
2	the zoom lens of claim 1;
3	a light source on the reducing side of the zoom lens; and
4	a light modulator positioned between the light source and the zoom lens for modulating
5	light from the light source with image information;
6	wherein
7	the zoom lens projects the modulated light so as to form an enlarged image on the
8	enlarging side of the zoom lens.
1	4. (original) A projection display device comprising:
2	the zoom lens of claim 2;
3	a light source on the reducing side of the zoom lens; and
4	a light modulator positioned between the light source and the zoom lens for modulating
5	light from the light source with image information;
6	wherein
7	the zoom lens projects the modulated light so as to form an enlarged image on the
8	enlarging side of the zoom lens.
1	5. (original) A zoom lens comprising, in order from an enlarging side along an optical axis:
2	a first lens group having negative refractive power that is movable for focusing and that is
3	stationary during zooming;
4	a second lens group having positive refractive power that moves during zooming;
5	a third lens group having negative refractive power that moves during zooming;
6	a fourth lens group having negative refractive power that moves during zooming; and

F is the focal length of the zoom lens at the wide-angle end when the zoom lens is

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7 a fifth lens group having positive refractive power that is stationary during zooming; wherein 8 9 the second lens group, said third lens group, and said fourth lens group move relative to 10 one another along the optical axis of the zoom lens during zooming, and 11 the following conditions are satisfied: 12 -2.2 < F1 / F < -1.213 0.6 < F2 / F < 1.114 -15.0 < F4 / F < -1.515 0.7 < F5 / F < 1.216 where 17 F1 is the focal length of the first lens group, 18 F2 is the focal length of the second lens group, 19 F4 is the focal length of the fourth lens group, 20 F5 is the focal length of the fifth lens group, and 21 F is the focal length of the zoom lens at the wide-angle end when the zoom lens is 22 focused at infinity on the enlarging side. 1 6. (original) A projection display device comprising: 2 the zoom lens of claim 5; 3 a light source on the reducing side of the zoom lens; and 4 a light modulator positioned between the light source and the zoom lens for modulating light from the light source with image information; 5 6 wherein 7 the zoom lens projects the modulated light so as to form an enlarged image on the 8 enlarging side of the zoom lens. 7. (canceled)

1	8. (currently amended) The zoom lens of claim 7, wherein A zoom lens formed of only five lens
2	groups, arranged in order from an enlarging side along an optical axis:
3	a first lens group having negative refractive power that is movable for focusing and that is
4	stationary during zooming;
5	a second lens group having positive refractive power that moves during zooming;
6	a third lens group having negative refractive power that moves during zooming;
7	a fourth lens group having negative refractive power that moves during zooming; and
8	a fifth lens group having positive refractive power that is stationary during zooming;
9	wherein:
10	the second lens group, said third lens group, and said fourth lens group move relative to
11	one another along the optical axis of the zoom lens during zooming.
12	the second lens group moves toward the enlarging side during zooming from the wide-
13	angle end to the telephoto end, and
14	the fourth lens group is positioned nearer the reducing side when at the telephoto end than
15	when at the wide-angle end.
1	9. (currently amended) The zoom lens of claim 7, wherein A zoom lens formed of only five lens
2	groups, arranged in order from an enlarging side along an optical axis:
3	a first lens group having negative refractive power that is movable for focusing and that is
4	stationary during zooming;
5	a second lens group having positive refractive power that moves during zooming;
6	a third lens group having negative refractive power that moves during zooming;
7	a fourth lens group having negative refractive power that moves during zooming; and
8	a fifth lens group having positive refractive power that is stationary during zooming;
9	wherein:
10	the second lens group, said third lens group, and said fourth lens group move relative to
11	one another along the optical axis of the zoom lens during zooming, and
12	the following conditions are satisfied:

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13
                        -2.2 < F1 / F < -1.2
14
                        0.6 < F2 / F < 1.1
15
                       -15.0 < F4 / F < -1.5
16
                        0.7 < F5 / F < 1.2
17
        where
18
                F1 is the focal length of the first lens group,
19
                F2 is the focal length of the second lens group,
20
                F4 is the focal length of the fourth lens group,
21
                F5 is the focal length of the fifth lens group, and
22
                F is the focal length of the zoom lens at the wide-angle end when the zoom lens is
23
                  focused at infinity on the enlarging side.
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        10. (original) The zoom lens of claim 8, wherein the following conditions are satisfied:
 2
                        -2.2 < F1 / F < -1.2
 3
                        0.6 < F2 / F < 1.1
 4
                       -15.0 < F4 / F < -1.5
                        0.7 < F5 / F < 1.2
 5
 6
        where
                F1 is the focal length of the first lens group,
 7
 8
                F2 is the focal length of the second lens group,
 9
                F4 is the focal length of the fourth lens group,
10
                F5 is the focal length of the fifth lens group, and
11
                F is the focal length of the zoom lens at the wide-angle end when the zoom lens is
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                  focused at infinity on the enlarging side.
        11. (canceled)
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12. (original) A projection display device comprising:

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2	the zoom lens of claim 8;
3	a light source on the reducing side of the zoom lens; and
4	a light modulator positioned between the light source and the zoom lens for modulating
5	light from the light source with image information;
6	wherein
7	the zoom lens projects the modulated light so as to form an enlarged image on the
8	enlarging side of the zoom lens.
1	13. (original) A projection display device comprising:
2	the zoom lens of claim 9;
3	a light source on the reducing side of the zoom lens; and
4	a light modulator positioned between the light source and the zoom lens for modulating
5	light from the light source with image information;
6	wherein
7	the zoom lens projects the modulated light so as to form an enlarged image on the
8	enlarging side of the zoom lens.
1	14. (original) A projection display device comprising:
2	the zoom lens of claim 10;
3	a light source on the reducing side of the zoom lens; and
4	a light modulator positioned between the light source and the zoom lens for modulating
5	light from the light source with image information;
6	wherein
7	the zoom lens projects the modulated light so as to form an enlarged image on the
8	enlarging side of the zoom lens.